abcam

Product datasheet

Recombinant Human Lamin B1 protein ab114163

2 Images

Description

Product name	Recombinant Human Lamin B1 protein
Expression system	Wheat germ
Accession	P20700
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MATATPVPPRMGSRAGGPTTPLSPTRLSRLQEKEELREL NDRLAVYIDKV RSLETENSALQLQVTEREEVRGRELTGLKALYETELADAR RALDDTARER AKLQIELGKCKAEHDQLLLNYAKKESDLNGAQIKLREYEAA LNSKDAALA TALGDKKSLEGDLEDLKDQIAQLEASLAAAKKQLADETLL KVDLENRCQS LTEDLEFRKSMYEEEINETRRKHETRLVEVDSGRQIEYEYK LAQALHEMR EQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSA REELMESRMRI ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLT DKEREMAE IRDQMQQQLNDYEQLLDVKLALDMEIS AYRKLLQGEEERLKLSPSPSS RVTVSRASSSRSVRTTRGKRKRVDVEESEASSSVSISHS ASATGNVCIEE IDVD GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVL KAGQ TVTIWAANAGVTASPPTDLIWKNQNSWGTGE DVKVILKNSQGEEVAQR STVFKTTIPEEEEEEEEAAGVVVEEELFHQQGTPRASNRS CAIM
Predicted molecular weight	91 kDa including tags
Amino acids	1 to 586

Specifications

Our Abpromise guarantee covers the use of **ab114163** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. ab114163 is best used within three months from the date of receipt.

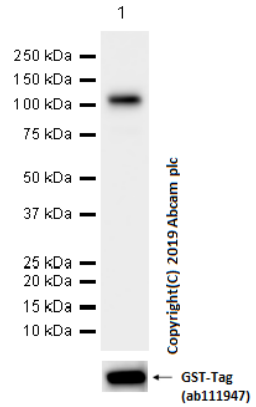
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin.
Involvement in disease	Defects in LMNB1 are the cause of leukodystrophy demyelinating autosomal dominant adult-onset (ADLD) [MIM:169500]. ADLD is a slowly progressive and fatal demyelinating leukodystrophy, presenting in the fourth or fifth decade of life. Clinically characterized by early autonomic abnormalities, pyramidal and cerebellar dysfunction, and symmetric demyelination of the CNS. It differs from multiple sclerosis and other demyelinating disorders in that neuropathology shows preservation of oligodendroglia in the presence of subtotal demyelination and lack of astrogliosis.
Sequence similarities	Belongs to the intermediate filament family.
Post-translational modifications	B-type lamins undergo a series of modifications, such as farnesylation and phosphorylation. Increased phosphorylation of the lamins occurs before envelope disintegration and probably plays a role in regulating lamin associations.
Cellular localization	Nucleus inner membrane.

Images



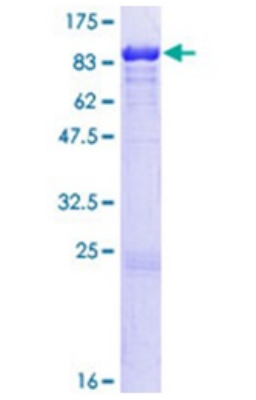
Western blot - Recombinant Human Lamin B1 protein (ab114163)

Anti-Lamin B1 antibody [EPR8985(B)] (ab133741) at 1/1000 dilution + Recombinant Human Lamin B1 protein (ab114163) at 0.015 µg with 5% NFDM/TBST

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Exposure time: 1 second



SDS-PAGE - Recombinant Human Lamin B1 protein (ab114163)

12.5% SDS-PAGE analysis of ab114163, stained with Coomassie Blue.

- We provide support in Chinese, English, French, German, Japanese and Spanish
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